



Science

Preparatory 1



	The gases that cause respiratory syste	em malfunction are
	a. carbon oxides	c. nitrogen oxides
	b. sulphur oxides	d. (b), (c)
	Oxides which affect the nervous system	m and the eye.
	a. Sulphur oxides	c. carbon oxides
	b. Nitrogen oxides	d. no correct answer
	What is the name of the chemical reac	tion in which elements and
	compounds join together to create a si	ingle product?
	a. Decomposition reaction	c. Substitution reaction
	b. Direct combination reaction	d. Neutralization reaction
	The chemical reaction equation below reacting with oxygen:	shows nitrogen monoxide
	$2N0+0_2 \longrightarrow 2N0_2$	" 0/3
	Which of the following types of direct	combustion reactions does this
	equation represent?	C " " "
	a. A mixture with an element	d. A compound with another
	b. An element with a compound	compound
	c. An element with another	n. 10/11.
	element	22 1
	The car brake performance is an appli	cation of
	a. attraction forces	c. centrifugal forces
	b. friction forces	d. nuclear force
•	is/are example/s of forces insid	le l <mark>iving sys</mark> tems.
	a. Pulse inside blood vessels	c. Brakes
	b. Inertia	d. All the pervious
	Static objects resist the change of its .	from rest to motion.
	a. mass	c. state
		d. All the pervious

Earth's surface because of the a. object's mass b. Earth's mass The electromagnet is used in maki a. calculator b. microscope Iron filings are attracted to an flows, due to the effect of a. gravity force b. electricity force	c. the distance from the earth's centerd. varied temperature
b. Earth's mass The electromagnet is used in making a calculator b. microscope Iron filings are attracted to a flows, due to the effect of	center d. varied temperature ng the set. c. electric bell d. night vision
The electromagnet is used in making a. calculator b. microscope Iron filings are attracted to a flows, due to the effect of a. gravity force	d. varied temperature ng the set. c. electric bell d. night vision
a. calculator b. microscope Iron filings are attracted to a flows, due to the effect of a. gravity force	ng the set. c. electric bell d. night vision
a. calculator b. microscope Iron filings are attracted to a flows, due to the effect of a. gravity force	c. electric bell d. night vision
b. microscope Iron filings are attracted to a flows, due to the effect of a. gravity force	d. night vision
Iron filings are attracted to a flows, due to the effect of	
flows, due to the effect of	n iron bar when the electric current
a. gravity force	
171 . 17171111111	
5	c. electromagnetic force d. nuclear force
The attraction force between an ob	oject and the Earth is equal to the
•••••••••••••••••••••••••••••••••••••••	407.0
a. electromagnet	c. weak nuclear
b. weight	d. strong nuclear
An object's weight on the Ear	th's surface is related to
force.	100.
a. electromagnet	c. Earth's attraction
b. weak nuclear	d. strong nuclear
All of the following are examp	ples of the universal forces in nature
except for	
a. thunder	c. wind motion
b. lightning	d. changing direction of the ball
All of the following are electron	omagnetic waves except for the
•••••••••••••••••••••••••••••••••••••••	
a. thermal rays (infra-red)	c. sound waves
b. visible light	d. ultraviolet rays

15-	When two cars move in the same	dire	ection with a velocity of 100
Kr	n/h, the driver of the first car imagi	nes	the second car to be
•••	•••••••••••••••••••••••••••••••••••••••		
a.	not moving	c.	moving forward
b.	moving backwards	d.	No correct answer
16-	A force is an effect that	••••	
a.	Changes the phase of an	c.	Changes both the object's
	object's motion only.		motion and its direction.
b.	Never changes the phase of	d.	Changes the phase of the
	the object's motion.		object's direction.
17-	is an example	of a	pneumatic musical
in	strument.	4	Tournamine
a.	Violin	c.	Lute
b.	Guitar	d.	Reed pipe
8- Wh	nat chemical is produced when magne	esiı	ım reacts with oxygen?
a.	Oxygen magnesium	c.	Magnesium oxygen
b.	Magnesium oxide	d.	Oxide magnesium
9- Wh	nich of the following speeds is closes	t to	the speed of light waves in a
vacu	ıum?	-0	2 1
a.	Three hundred thousand meters per	• se	cond
b.	Three thousand meters per second		salkhar
c.	Three hundred million meters per s	eco	nd
d.	Three million meters per second		
100	\$25/\$.75 1.35.57 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		

20- Which of the following chemical equations shows the reaction between ammonia and hydrogen chloride to form ammonium chloride?

a.
$$NH_3+HCl \longrightarrow NH_4Cl$$

b.
$$NH_4Cl+H_2O \longrightarrow HCl+NH_4OH$$

d.
$$N_2+3H_2 \longrightarrow 2 NH_3$$





21-	Which of the following is a unit of fo	rce?	د درات جاهره تعقباعه
ā	a. The newton	c. The watt	
ŀ	o. The kilogram	d. The joule	
22	- If an object is not moving, it	start to move unless a	force acts on
	it.		
	a. will	c. (a) & (b)	
	b. will not	d. No correct answer	
23	- If an object is moving, it will not cha	nge or	unless a
	force acts on it.		- 1
	a. speed, direction	c. position, inertia	_
	b. position, direction	d. no correct answer	วททว
24	- An object with a mass of 20 kg falls t	coward Earth. What is	the
	acceleration of the object if the only fo	orce acting on it is gra	vity?
	a. 7.8 m/s ²	c. 9.8 m/s ²	12.0
	b. 8 m/s ²	d. No correct answer	~0.
25	- A person stands on the north pole of	Earth and a second pe	rson stands
	on the equator. The directions that the	e gravitational forces o	on the two
	people act in are	D. 1011.	
	a. the same as each other	c. at 90 degrees to ea	ach other
	b. opposite to each other	d. no correct answer	
26	- The weight of an object is the gravita	ationalthat ac	cts on it.
	a. force	c. energy	
	b. mass	d. no correct answer	
27	· The electric motor works on changin	g energy to	energy.
	a. Mechanical; electric	c. Electric; mechanic	cal
	b. Electric; heat	d. No correct answer	
28	- The electric generator works on chang	gingenergy to .	energy.
	a. Mechanical; electric	c. Electric; mechanic	cal
	h Floctrice hoot	d No correct answer	



29-	Objects	weight
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- a. The amount of Earth's attraction to the object.
- b. The point at the center of an object where the force of gravity affects the object.

- c. (a) & (b)
- d. No correct answer
- 30- Find the mass of an object if its weight = 60 N, knowing that the earth's gravity acceleration is 9.8m/s²
- a. 12.6 Kg
- b. 6.12 Kg
- ∆adonna Youhanna c. 6.12 N
- d. No correct answer
- 31- When the electric current passes through a wire near a magnetic needle it deflects.
 - a. Due to the gravity.
 - b. Due to the magnetic effect of the electric current
 - c. Due to the attraction force
 - d. No correct answer
- 32- Carbon monoxide has a dangerous impact on human being and it may cause.....
 - a. Building corrosion

Headache and fainting

b. Bombing

- d. No correct answer
- 33- Which of the following statements about nuclear forces is correct?
 - a. The strong nuclear force is a different type of force from the weak nuclear force, but both are types of fundamental forces.
 - b. The strong nuclear force is a different type of force from the weak nuclear force, and only the strong nuclear force is a type of fundamental force.

c. The strong nuclear force is to force, just stronger.d. No correct answer.	the same type of force as the weak nuclear
force, just stronger.	
d. No correct answer.	
34- Which of the following are ty	pes of fundamental forces?
a. Opposing forces	c. Up thrust forces
b. Constant forces	d. Magnetic forces
35- Which of the following are ty	pes of force responsible for radioactive
decay of atomic nuclei?	
a. Weak nuclear forces	c. Electrical forces
b. Strong nuclear force	d. Magnetic forces
36- The particles in the diagram	show the reaction between carbon and
oxygen to form carbon dioxide	e. Heat is required for this reaction to take
b. Constant forces 35- Which of the following are ty decay of atomic nuclei? a. Weak nuclear forces b. Strong nuclear force 36- The particles in the diagram oxygen to form carbon dioxide place. What does the heat do? a. It turns the carbon into soo b. It sticks the carbon atom to c. It forms the bonds between d. It breaks the double covaled.	
a. It turns the carbon into soo	ot during burning.
b. It sticks the carbon atom to	the oxygen atoms.
c. It forms the bonds between	the carbon and oxygen atoms.
d. It breaks the double covale	nt bond in the oxygen molecule.
37- Which of the following are ty	pes of fundamental forces?
a. Constant forces	c. Gravitational forces
b. Friction forces	d. Upthrust forces
38- Which of the following is a u	nit of weight?
a. The kilogram	O. C.
b. The newton	
c. (a) and (b)	
d. No correct answer	
39- Which of the following is a u	nit of mass?
a. The kilogram	c. (a) and (b)
b. Friction forces 38- Which of the following is a u a. The kilogram b. The newton c. (a) and (b) d. No correct answer 39- Which of the following is a u a. The kilogram b. The newton	d. No correct answer
	e the arrow in a chemical equation mean?
	Λ



- a. Three substances present
- b. Heat required
- c. Diluted substances
- d. Concentrated substances
- 41- Which of the following statements best describes the way in which mass is conserved during chemical reactions?

- a. The total mass of reactants is equal to the total mass of products plus the mass of oxygen.
- b. The total mass of reactants is greater than the total mass of products.
- c. The total mass of reactants is always the same as the solid products produced.
- d. The total mass of reactants is equal to the total mass of products.
- 42- A teacher places a cup of coffee onto an electronic balance at the front of the science laboratory. The teacher then adds three large teaspoons of sugar to the coffee. The volume of the coffee does not appear to increase.

 What happens to the mass displayed on the front of the balance?
 - a. The mass on the balance decreases.
 - b. The mass on the balance stays the same.
 - c. The mass on the balance increases.
 - d. No correct answer.
- 43- In a chemical reaction, 64 g of zinc is reacted with excess oxygen to form 80 g of zinc oxide. How much oxygen is used in this reaction?

a. 144 g

c. 16 g

b. 80 g

d. 64 g

- 44- The greater the mass of an object, the..... the weight of the object.
 - a. less
 - b. greater
 - c. smallest
 - d. no correct answer

45-The diagram shows two objects at different positions around Earth. The force of gravity acts on the black object in the direction of the black arrow. Which color arrow correctly shows the direction in which the force of gravity acts on the green object?

- a. Red
- b. Blue
- c. (a) and (b)
- d. No correct answer
- 46- A process in which breaking of bonds between reactants' molecules and forming of new bonds between products' molecules occurs.
 - a. Chemical reaction

c. Law of constant ratio.

b. Chemical equation

- d. No correct answer.
- 47- Two boxes have the same mass. One box falls toward the ground from a point near the ground. The other box is at rest on the ground. In which of the following ways do the weights of the boxes compare?
 - a. Both boxes have the same weight.
 - b. The falling box has less weight.
 - c. The falling box has greater weight.
 - d. No correct answer.
- 48- Which of the following equations showing the formation of carbon dioxide is correctly balanced?.

a.
$$2C+O_2 \longrightarrow CO_2$$

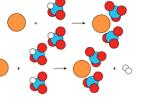
b.
$$C+O_2 \longrightarrow CO_2$$

c.
$$C+O_2 \longrightarrow CO$$

d.
$$C+O \longrightarrow CO_2$$

49- Which of the following particle diagrams shows the law of conservation of mass being preserved?











777	d. No correct answer 50- The chemical reaction causes
7	دُكرات جاهزة للطباعة
7	d. No correct answer
1	50- The chemical reaction causes
1	a. breaking the bonds between the products and forming new bonds
7	between the reactants.
1	b. the formation of bonds between the products ,then breaking the bonds
1	between the reactants.
7	c. breaking the bonds between the molecules of reactants and forming
7	new bonds between the molecules of the products.
1	d. breaking the bonds between the products and the reactants.
7	51- The sum of reactants masses in any chemical reaction is
7	the sum of products masses.
1	a. doubled
7	b. more than
7	c. equal to
1	d. less than
1	52- If the molecule of carbon dioxide consists of one atom of carbon and two
7	atoms of oxygen, knowing that the mass of carbon is 12 and that of oxygen
7	is 16, so the mass of two molecules of carbon dioxide equals
7	gm.
1	a. 22
7	b. 44 d. 33
7	53- Direct combination reaction takes place between
1	a. two nonmetals.
7	b. a metal and a nonmetal.
1	c. a compound with another.
1	d. all of the previous answers.
7	54- Ammonia combines with conc. HCl producing of
7	ammonium chloride.
フフフフフフフフフフフフフフ	
7	` *************



a. white ppt	رات جاهزه للطباعة
b. brown clouds	
c. white clouds	
d. brown ppt	
55- Chemical reactions are used in	
a. medicines industry.	
b. fertilizers industry.	
c. food industry.	i di .
d. all of the previous answers.	" T
56- Increasing the ratio of gas in the atmospher	e leads to
increasing the air temperature. a. carbon monoxide	anına
b. carbon dioxide	CD.
c. nitric oxide	200
d. sulphur dioxide	, O.
57- The gases that cause building corrosion are	41/10
a. nitrogen oxides.	94.
b. carbon oxides.	P
c. sulphur oxides.	
d. both (b) and (c).	
58- The gases that affect the nervous system and the eye are	• • • • • • • • • • • • • • • • • • • •
a. nitrogen oxides.	
b. carbon oxides.	
c. sulphur oxides.	
d. (a) and (b).	
59- All of these gases are acidic gases except	
a. sulphur dioxide.	
b. sulphur trioxide.	
c. nitrogen oxides.	

d.	ammonia.
60	oxides are resulted during the time of lightning.
a.	Carbon
b.	Sulpher
c.	Nitrogen
d.	(a) and (b)
61- 7	The substances resulted from burning of coal and cellulose fibres cause.
a.	head-ache.
b.	fainting.
c.	lung cancer. (a), (b) and (c) are correct.
d.	(a), (b) and (c) are correct.
62	is the distance at which an object moves away
	from its original position at any moment in a certain direction.
	a. Velocity
	b. Speed
	c. Displacement
	d. Acceleration
53- V	Which of the following represents a static object?
a.	Displacement occurred by the object every second is not equal.
b.	Displacement occurred by the object every second is equal.
c.	Displacement value of the object is fixed.
d.	No correct answer.
64- [The change in an object's position or direction as the time passes relative
to	a frame of reference is called motion.
a.	periodic
b.	vibrating
c.	relative
d.	circular
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★ ★
★ ★ 65- If you are in a moving train, you imagine that cars moving in the same
direction on the road at smaller speed
a. stop.
b. move forward.
c. move backward.
d. move with a high speed.
66-The motion of the following objects are transitional motion except the
motion of
a. train.
b. simple pendulum.
65- If you are in a moving train, you imagine that cars moving in the same direction on the road at smaller speed
67- In the periodic motion, the
a. pathway is straight.
b. motion is regularly repeated.
c. time is regularly repeated.
d. speed is regularly changed.
68- All of the following are periodic motions except the
motion.
b. pendulum
c. train
d. sunf lower
69- All of the following are motions regularly repeated in equal periods of
time except
a. wave motion.
b. circular motion.
c. vibrating motion.
a. fan b. pendulum c. train d. sunf lower 69- All of the following are motions regularly repeated in equal periods of time except
* ****************

o-All of the following are properties o	f sound waves except
a. it is mechanical waves.	
b. it is produced due to vibration	of medium particles.
c. it needs a medium to travel.	
d. it travels through free space.	
waves is an exam	ple of mechanical waves.
a. Water	
b. Light	
c. Radio	
d. Ultraviolet 72are used in body.	examining and curing sets for human
a. Ultrasonic waves	e, 0,5
b. Gamma rays	407
c. Infrared rays	000
d. X-rays	28 May 21/1/10
Sound waves are used in all the follo	owing except
a. examining and curing sets.	1001.
b. making remote sets.	100
c. musical instruments.	(1))
d. amplifiers.	,
are used in night	vision <mark>apparatus.</mark>
a. Infrared rays	
b. Ultraviolet rays	
c. Gamma rays	
d. X-rays	
- X-rays are used in	•
a. treatment and discovering so	me swellings.
b. photographing bones to detec	ct bone fractures. www.Cryp2Dag نذكرات باهزة للطباعة

c. sterilizing the sets of surgical operation rooms.
d. remote sensing instruments to photograph the Earth's surface. 76 are used in medical purposes as the treatment and discovering some swellings. a. X-rays
76are used in medical purposes as the treatment
and discovering some swellings.
a. X-rays
b. Ultraviolet rays
c. Infrared rays
d. Gamma rays
77is among the applications of ultraviolet rays.
a. Photographing bones
b. Night vision apparatus c. Sterilizing of the sets of surgical operation rooms d. Discovering of some swellings 78- Visible light is used in all of the following applications except in
d. Discovering of some swellings
78- Visible light is used in all of the following applications except in
a. night vision apparatus.
b. television cameras.
c. photographic cameras.
d. data shows.
79- All of the following are accompanied forces to motion except
a. friction force.
b. gravitational force.
c. force of inertia.
d. forces inside living systems.
80- When a moving bus stops suddenly, the passengers and the driver
a. rush backward.
b. rush forward.
c. turn upside down.
d. tend to lean.
a. friction force. b. gravitational force. c. force of inertia. d. forces inside living systems. 80- When a moving bus stops suddenly, the passengers and the driver
`` `***************

81- When the horse is tripped, the horse rider is suddenly rushed forward,			
this is related to the force of			
a. inertia.			
b. centrifugal.			
c. attraction.			
d. horse pushing.			
82-Passengers are rushed back when a car starts moving suddenly, this is			
related to			
a. centrifugal force.			
b. force of attraction.			
this is related to the force of			
d. friction force.			
83 is a technological application on inertia forces.			
a. Car tyres			
b. Contraction and relaxation of muscles			
c. Safety belts			
84- The car brake performance is an application of			
a. attraction forces.			
b. friction forces. c. electromagnetic forces. d. forces of inertia. 85- The following forces are applications of friction except a. walking on foot on a road. b. starting motion of cars. c. the work of electric generator (dynamo). d. stopping the car using the brakes.			
c. electromagnetic forces.			
d. forces of inertia.			
85- The following forces are applications of friction except			
a. walking on foot on a road.			
b. starting motion of cars.			
c. the work of electric generator (dynamo).			
36- Friction causes a great loss of mechanical energy because this energy is			
changed into energy. www.Cryp2Day.com موقع مذكرات باهزة للطباعة			



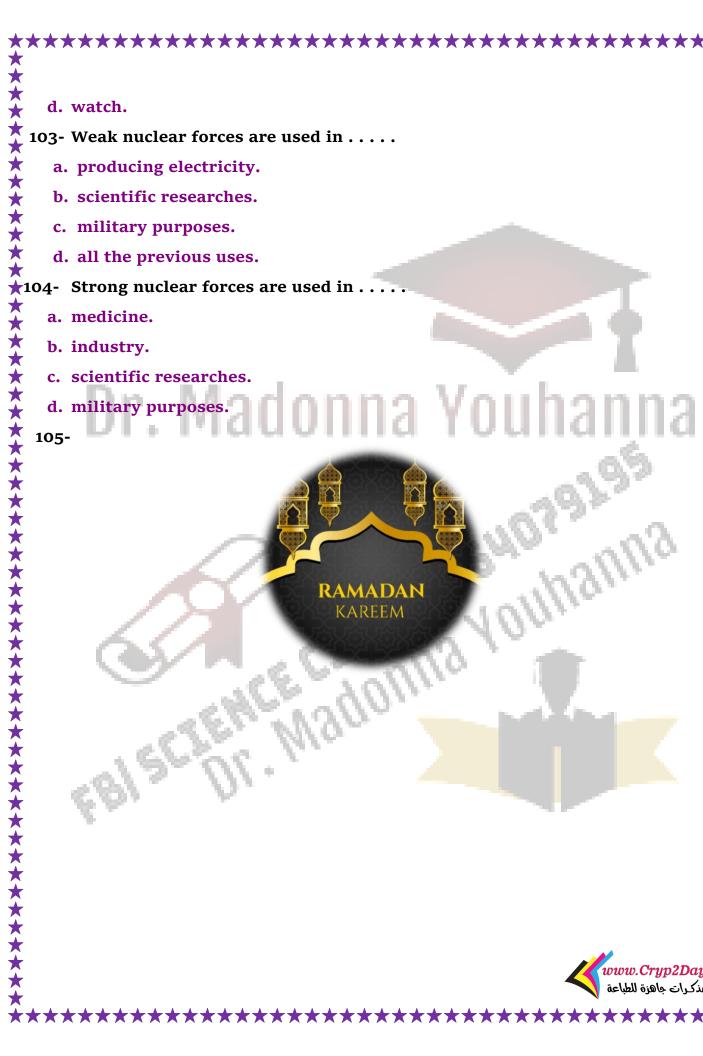
a. light b. electric c. heat d. magnetic 87-The idea of machine lubrication depends on the decrease in a. their weights. b. forces of inertia. c. friction forces. d. forces of gravity. 88- is among the forces inside living systems. a. The contraction and relaxation of muscles b. Force of inertia c. Electrostatic force d. Friction force 89- Liquids transport through pores and the walls of cells from a. outside to inside. b. inside to outside. c. low concentration to high concentration. d. high concentration to low concentration. 90- A force is an effect that a. always changes the phase of an object's motion only. b. never changes the phase of an object's motion. c. always changes both object's phase and direction. d. may change the phase of an object motion only. 91- Universal forces in nature are a. attraction forces. b. electromagnetic forces. c. nuclear forces.

d. all of the previous forces.

92-	The attraction force between an object and the Earth is equal to the
a	. object's mass.
b	. object's weight.
C	Earth's gravity acceleration.
d	. Centrifugal force.
93-	An object's weight on the Earth's surface is related to forces.
	a. electromagentic
	b. attraction
	c. weak nuclear
	d. strong nuclear
94-	Earth's gravity acceleration is changed from a place to another on
]	Earth's surface because of
ā	a. objects' masses.
ŀ	o. Earth's mass.
(c. the distance from the Earth's centre.
(l. various temperatures.
95-	The multiplying of object's mass by Earth's gravity acceleration equals
••	
a	. object's volume
b	. object's mass
C	object's weight
d	. no correct answer.
96-	The bar used in the electromagnet is made up of
ā	a. isolated copper.
ŀ	o. steel iron.
(c. wrought iron.
(d. aluminium.
97-	The idea of how the electromagnet works is to change
ā	a. mechanical energy into electric energy.
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b. electric energy into magnetic energy.	
c. electric energy into mechanical energy.	
d. magnetic energy into mechanical energy.	
8- Electromagnet is used in making the	set.
a. calculator	
b. electric bell	
c. microscope	
d. night vision	
99-Electromagnetic forces affect the performance of the	e following except for
a. dynamo (electric generator).b. electric motor.	ıhanna
c. car internal combustion engine.	~ 0/3
d. electromagnet.	407
o- The changes the mechanical energ	y into an electric
energy. a. electromagnet b. dynamo	TIV8UIL
c. electric motor d. no correct answer 1- The electric motor changes the	V
a. mechanical energy into an electric energy.	
b. electric energy into a magnetic energy.	
c. electric energy into a mechanical energy.	
d. magnetic energy into a mechanical energy.	7.5
2- Electric motor is used in the manufacture of	
a. radio.	
b. electric bell.	
c. blinder (mixer).	Danie
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- 103- Weak nuclear forces are used in
- - nna Youhanna







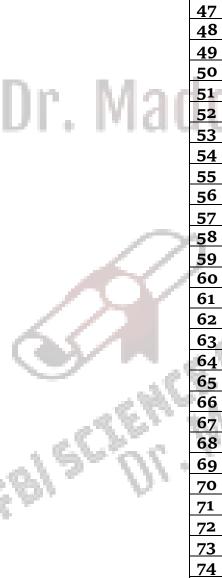


Answers

Youhanna	1	В
19195	2	В
Youhanna peworgrass nna Youhanna	3	В
ang Your	4	В
IIII	5	В
	6	A
	7	C
	8	C
	9	С
B/I o c	10	C 1
IMIMI	11	В
I.LCI.	12	C
	13	D
	14	C
	15	A
	16	С
	17	D
//	18	В
dr-1	19	C_4
	20	A
	21	A
/	22	В
/ Pl.	23	A
. 6"	24	C
160 0	25	С
12 Te 18	26	A
2.	27	С
. UL.	28	A
13.4.	29	A
· ·	30	В
	31	В
	32	С
	33	A
	34	D
	35	A
	36	D
	L —	



37	C
38	В
39	A
40	В
41	D C
42	С
43	С
44	В
45	В
46	Α
4 7	A
48 49	В
	B C C D C
50	С
51	C
52	С
53	D
53 54	С
55	D
56	В
55 56 57	С
58	A D
59	D 0.70
60	C C C
61	C
62	C
63	
64	С
65	С
66	В
67	В
68	C
69	D
70	D
71	A
72 73 74 75 76	A
73	В
74	a
75	В
	D
77	С





	78	A
	79	В
	80	В
	81	A
	82	C
	83	C
	84	В
	85	C
	86	С
	88	C
	89	A
	90	С
	91	D
	92	В
Mag	93	B
141541	94	C C
1.1010	95	С
	96	С
	97	В
	98	В
	99	С
/	100	В 🚚 🐧
	101	c A
	102	C
W	103	В
	104	D
	1.20	-0.7

